

**IN THE DRAWINGS**

Please add the legend -PRIOR ART- in Figure 1.

Please delete character reference SP4 in Figure 4.

Attachment: Replacement Sheets

REMARKS

In light of the above amendments and remarks to follow, reconsideration and allowance of this application are respectfully requested.

Claims 1, 3, 4, and 6 are pending in this application.

In the Office Action, the Examiner required corrections to Figures 1 and 4. Figures 1 and 4 have been corrected as suggested by the Examiner. Accordingly, withdrawal of the objection to the drawings is respectfully requested.

Claims 1 and 4 were rejected under 35 U.S.C. §102(b) as being anticipated by Codilian (US 6,204,988). Claims 2 and 5 are rejected under 35 U.S.C. §103(a) as being unpatentable over Codilian in view of Smith (US 5,331,299). As previously mentioned, claims 2 and 5 are canceled.

Independent claim 1, as amended herein, includes features from canceled claim 2. For instance, independent claim 1 recites in part as follows:

"... a gain setting unit for adjusting a gain of the feedback control system based on a sign of the integrated product results from the integrator so that the open loop gain converges to 0 dB." (Emphasis added.)

In explaining the rejection with regard to claim 2, the Examiner stated that Codilian does not expressly teach the open loop gain is converged to zero by adjusting a gain of the feedback control system based on a sign of the output value of the integrator. To cure such defect, the Examiner appears to rely on col. 2, lines 18-50, col. 4, lines 64-67, and Fig. 1, element 40 of Smith. It is respectfully submitted that the portions of Smith applied by the Examiner (hereinafter "Smith") do not teach the above recited feature. Element 40 of Smith is an integrator that produces an error signal  $f_E$ . The signal  $f_E$  is supplied to a summing node 41 where the signal  $f_E$  is combined

with a dither signal from oscillator 18. The combined signal is fed to a notch filter 10 such that a center frequency of the notch filter 10 is adjusted accordingly. Smith does not appear to disclose outputting error signal  $f_E$  to a gain setting unit, where the gain setting unit adjusts the gain based on a sign of the signal  $f_E$  as in claim 1. Thus, Smith discloses outputting a signal from the integrator 40 to adjust a center frequency of a notch filter 10; unlike the device of claim 1 which outputs a signal from the integrator to adjust a gain of a feedback control system.

Accordingly, claim 1 is believed to be distinguishable from Codilian either alone or when combined with Smith.

For similar or somewhat similar reasons with regard to claim 1, claim 4 is believed to be distinguishable from Codilian either alone or when combined with Smith.

Claims 3 and 6 are rejected under 35 U.S.C. §103(a) as being unpatentable over Codilian in view of Diepstraten (US 5,602,896).

Claims 3 and 6 depend from claims 1 and 4 respectively, and, due to such dependency, are believed to be distinguishable from Codilian. The Examiner does not appear to have relied on Diepstraten to overcome the above described deficiency of Codilian. Accordingly, claims 3 and 6 are believed to be distinguishable from the applied combination of Codilian and Diepstraten.

As it is believed that all of the rejections set forth in the Official Action have been overcome, favorable reconsideration and allowance are earnestly solicited. If, however, for any reason the Examiner does not believe that such action can be taken at this time, it is respectfully requested that he/she telephone applicant's attorney at (908) 654-5000 in order to overcome any additional objections which he might have.

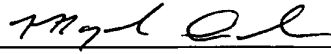
Application No.: 10/813,454

Docket No.: SONYJP 3.0-1068

If there are any additional charges in connection with this requested amendment, the Examiner is authorized to charge Deposit Account No. 12-1095 therefor.

Dated: June 26, 2006

Respectfully submitted,

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